Mathematical Reflection

Book: Primetime

Investigation: 4- Factorizations- Searching for factor strings

1. A. Not all numbers have a prime factorizations because 1 doesn’t have a prime factorization

B. Every number has only **1** factor string

C. It is important to know that 1 is not a prime number so your strings can’t go on to infinite amounts.

2. A. You can use the prime factorization of two numbers to find their least common multiple by multiplying the 2 factor strings by the string that all together, they don’t have in common. 72 and 120 have 2x2x2x3x3x5 which equals 360. 360 is their least common multiple.

B. You can use the prime factorization of two numbers to find their greatest common factor by multiplying the factor string that they have in common. An example of that is 72 and 120. Their string is 2x2x2x3 which equals 24, their greatest common factor.